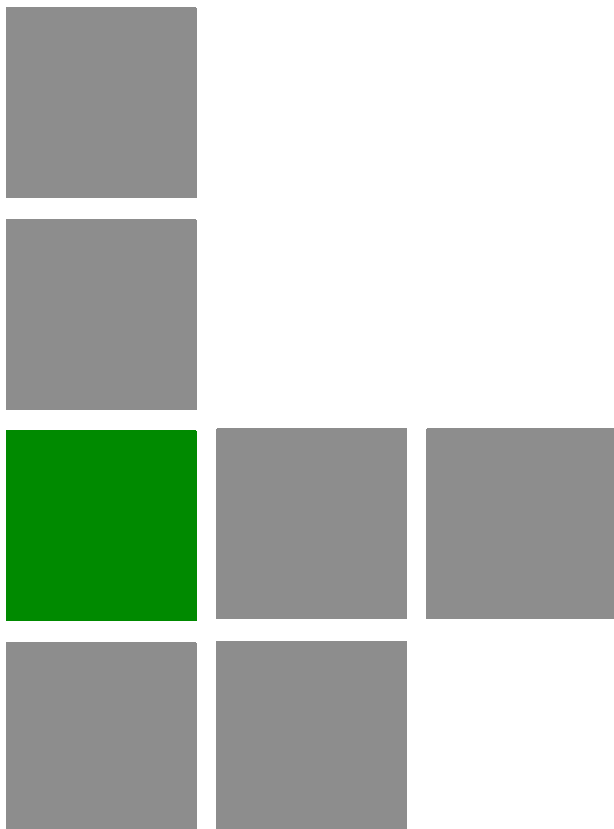


AlvariCRAFT



Installation Manual

July 2009
P/N: 215304

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About This Manual

This manual describes how to install the AlvariCRAFT software and includes the following chapters:

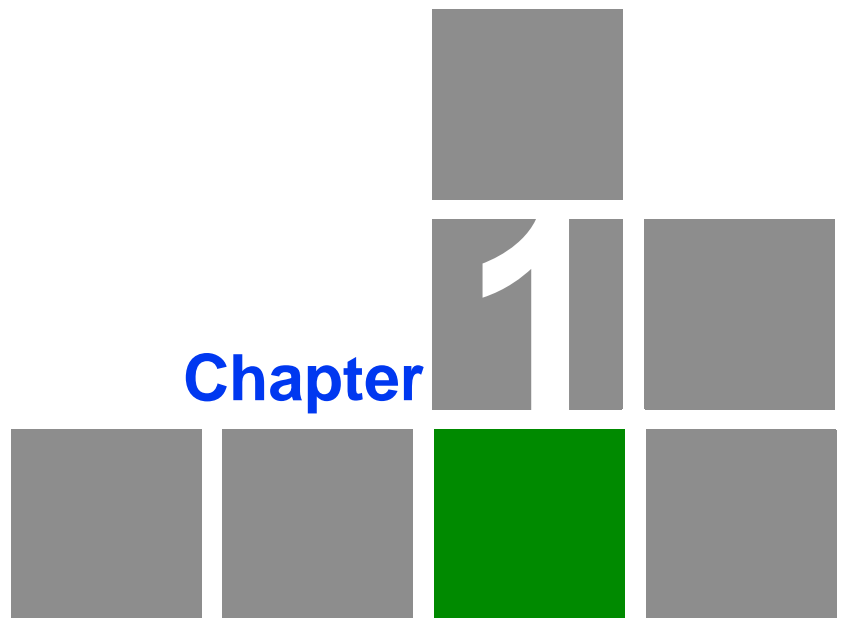
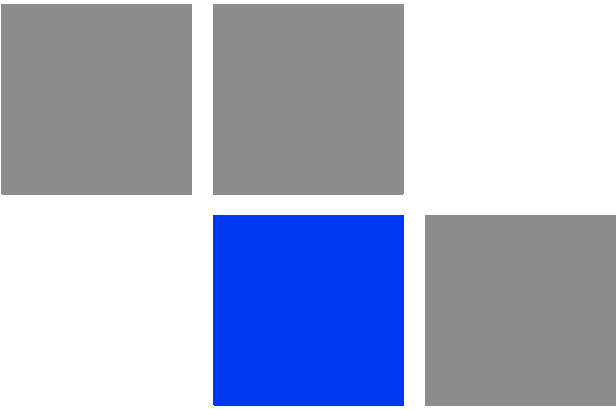
- Chapter 1 - Introduction to AlvariCRAFT Installation: Describes the AlvariCRAFT architecture and the minimum system requirements.
- Chapter 2 - Installation and Upgrade: Describes application and device driver installation and upgrade.
- Chapter 3 - Uninstalling AlvariCRAFT: Describes how to remove AlvariCRAFT.

This manual uses the following conventions:

- Names of buttons appear in **Bold** and names of windows in *italics*: e.g., Click **Next**. The *License Agreement* window is displayed.
- <Text> means that an actual value is to be entered instead of the text in between the angled brackets.

Contents

Chapter 1 - Introduction to AlvariCRAFT Installation.....	1
1.1 AlvariCRAFT Overview	3
1.2 AlvariCRAFT Architecture	4
1.3 Deployment Scenarios.....	5
1.4 Hardware and Operating System, Information	6
Chapter 2 - AlvariCRAFT Installation and Upgrade	7
2.1 Overview	9
2.2 AlvariCRAFT Installation	10
2.2.1 Pre-installation Tasks	10
2.2.2 Installing AlvariCRAFT	12
2.2.3 Post-installation tasks	20
2.3 Running AlvariCRAFT.....	23
2.4 Upgrading an AlvariCRAFT Installation	24
Chapter 3 - Uninstalling AlvariCRAFT	25
3.1 Uninstalling AlvariCRAFT.....	27



Introduction to AlvariCRAFT Installation

In This Chapter:

- [“AlvariCRAFT Overview” on page 3](#)
- [“AlvariCRAFT Architecture” on page 4](#)
- [“Deployment Scenarios” on page 5](#)
- [“Hardware and Operating System, Information” on page 6](#)

1.1 AlvariCRAFT Overview

AlvariCRAFT is a PC or Laptop based graphic application based on the same user interface available for AlvariSTAR. AlvariCRAFT is designed for use by field technicians, enabling simple and intuitive Graphical Local Craft Terminal (LCT) for managing and configuring a single device type in the field. This utility simplifies the installation and maintenance of small size deployments by easily enabling changes of settings or firmware upgrades for one modular Base Station or Micro Base Station at a time, including the managed device's components and associated SUs (if applicable). The AlvariCRAFT utility includes all the functionalities of AlvariSTAR that are applicable to the management of a single device.

1.2 AlvariCRAFT Architecture

AlvariCRAFT focuses on the Element Management System (EMS) and Network Management System (NMS) layers of Telecommunication Management Networks (TMN) to provide **FCAPS** management functions customized to a single network element:

- **Fault Management** - Alarm observation including alarm and state report, correlation, suppression, alarm sorting, filtering and reports, alarm log, summarized alarms and acknowledgment, color coding and forwarding to upper level management systems.
- **Configuration Management** - Device discovery and scheduled periodical updates, hierarchical location and contacts management, single and multiple unit configuration and software upgrade, services provisioning, unit and board configuration, telephony and data service provisioning, off-line configuration, logical and geographical topology views and inventory management.
- **Performance Management** - AlvariCRAFT Real Time performance monitoring enables to monitor various counters showing statistics of communication between the device and defined Policy Function server.

AlvariCRAFT's multi-layer archi-functional architecture comprises an infrastructure layer providing common functionality including inventory, faults, topology, log and reports, SW download, performance monitoring and security.

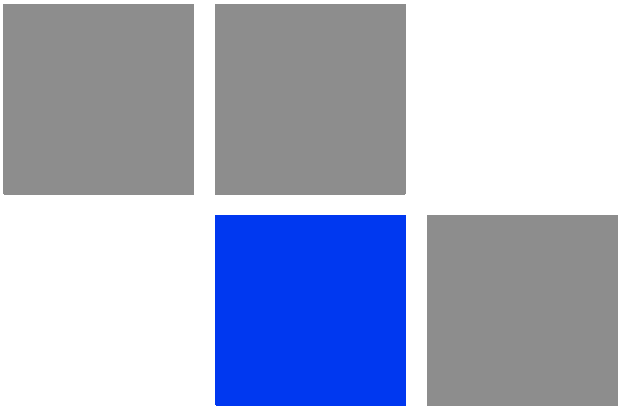
The Device Drivers layer enables to add management, configuration and service provisioning capabilities that may differ among various Alvarion product families. The common infrastructure can be integrated with either one or several Device Drivers, according to need.

1.3 Deployment Scenarios

AlvariCRAFT is designed to work in networks of varying sizes. Defined as LCT (Local Craft Terminal) it manages only one network element at one time. It is recommended that the application be installed on a mobile PC (laptop) so that it can be used in various locations in the field. As the IP address of that laptop varies at every location, the application has been designed to support this by dynamically selecting the IP to bind to on initializing.

1.4 Hardware and Operating System, Information

AlvariCRAFT	
Hardware	1 CPU, Core2 Duo 2.4GHz, 2 GRAM, 80 GB disk
Operating System	Windows XP Pro English SP2 Windows XP SP2 Windows Server 2003 R2 English Windows Vista English



Chapter

2

AlvariCRAFT Installation and Upgrade

In This Chapter:

This chapter describes how to install or upgrade the AlvariCRAFT Application and relevant device drivers.

- [“Overview” on page 9.](#)
- [“AlvariCRAFT Installation” on page 10.](#)
- [“Running AlvariCRAFT” on page 23](#)
- [“Upgrading an AlvariCRAFT Installation” on page 24](#)

2.1 Overview

The AlvariCRAFT installation package installs the infrastructure, Oracle database and one or more device drivers, allowing connectivity to the different network elements. At least one device driver must be installed.

The device driver enables management, configuration and service provisioning capabilities for a particular device. Before starting installation, check which device is in use. It is possible to upgrade the device driver or install a driver for a new device at any time.

The install wizard searches for existing AlvariCRAFT installations. If an older version of the AlvariCRAFT installation is detected, the system automatically uninstalls it. The installation program installs all necessary system components for the AlvariCRAFT infrastructure.



NOTE

- All AlvariCRAFT installation steps and information about the location of the installed files are saved in a log file <INSTALL_ROOT> AlvariCRAFT_InstallLog.log.
- All Database, Device Driver or Device Driver Upgrade installation steps are saved in a log file <INSTALL_ROOT> craft-install.log.
- All LDAP installation steps are saved in a log file <INSTALL_ROOT> ldap-install.log.
- All Oracle installation steps are saved in a log file <INSTALL_ROOT> oracle-install.log.

2.2 AlvariCRAFT Installation

Before beginning the AlvariCRAFT installation, you must check that you have the necessary information and that you have performed the tasks as outlined in [Section 2.2.1](#).

2.2.1 Pre-installation Tasks

2.2.1.1 Check-list

- It is recommended to install AlvariCRAFT on a computer which is dedicated to running AlvariCRAFT.
- The installation requires 2.5GB disk space. Verify in that there is enough disk space.
- Log in to the system with administrator privileges.
- Allow all ports that request to be opened to remain open permanently.

2.2.1.2 Configuring Network Ports

The following ports between the server machine, client machine, third party tools and managed network equipment must be open.

Table 2-1: Network Ports Configuration

Use	Port	Protocol	Direction	Remark
App server and managed equipment	161	SNMP	Outbound towards NE	
App server and managed equipment	162	SNMP	Inbound from NE	
App server and managed equipment	69	TFTP	Outbound towards NE	The TFTP request uses port 69 when going from the server to the managed equipment. The response from the equipment can use ANY port. This should be taken into account when hardening the servers.
AlvariCRAFT and managed equipment	23	TELNET	Outbound between client and NE	If the "Cut through" operation is in use, AlvariCRAFT and managed equipment must have IP connectivity on port 23.
NetBIOS	137	netbios-n	Inbound/Outbound	
LDAP Server	10389	LDAP	Inbound/outbound between AlvariCRAFT and the LDAP server	
Oracle Database	User def(default port 1521)	Oracle	Inbound/outbound between the server and the database	This port is set during the Oracle installation.

2.2.2 Installing AlvariCRAFT

- 1 Log in to the computer on which the installation is to be performed as a user with administrator privileges.
- 2 To begin the installation, double-click the **setup.bat** file directly from the AlvariCRAFT Install CD. (The setup.bat file can be found within the Disk1 folder.)



CAUTION

When copying or downloading the installation kit to a local disk, make sure you copy the entire content of the kit - not only the setup.bat file.

InstallAnywhere is activated.

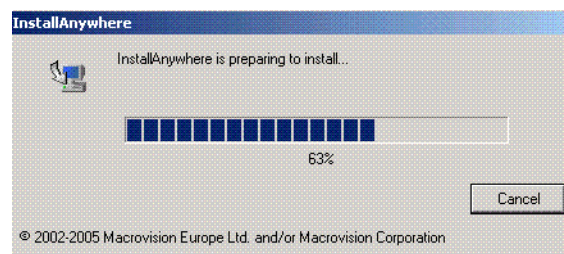


Figure 2-1: InstallAnywhere Initialization

- 3 Wait until InstallAnywhere has completed the initialization. An *Introduction* window is displayed.



NOTE

During installation, a console screen is displayed in the background behind the installation windows. This screen does not require user intervention and should be ignored.

Figure 2-2: Introduction Window

- 4 Review the information and click **Next**.

The *License Agreement* window is displayed.

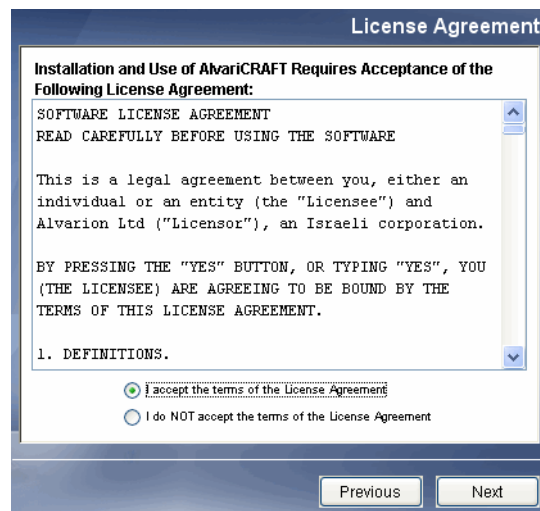


Figure 2-3: License Agreement Window

- 5 Accept the terms of the license agreement and click **Next**.

The wizard searches for existing AlvariCRAFT installations. If an existing installation is detected (SW version 4.1 and higher), the system will automatically uninstall the previous installation, before proceeding with the installation. The *Choose Install Set* window is displayed.

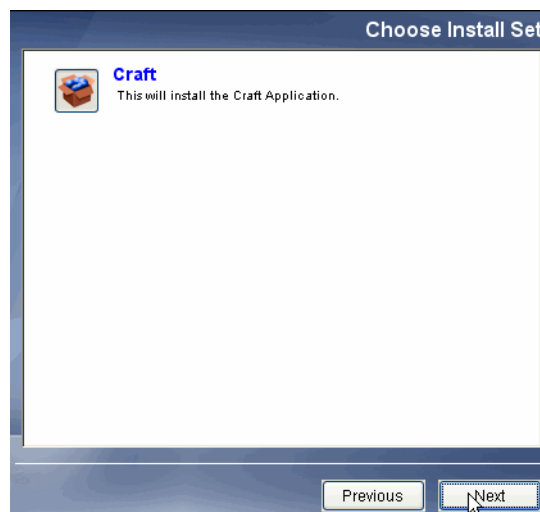


Figure 2-4: Choose Install Set Window

- 6 Choose **Craft** and click **Next** to continue with the installation.

The *Device Driver Selector* window is displayed.

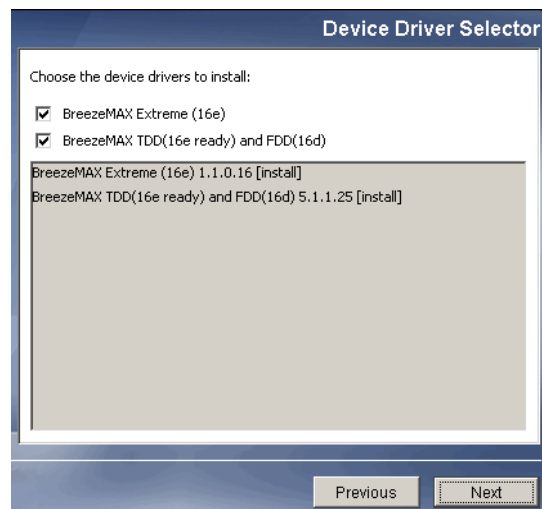


Figure 2-5: Device Driver Selector Window

- 7** Select the device driver(s) to install and click **Next**. By default, all device drivers are selected.



NOTE

At least one device driver must be selected.

The *Choose Install Folder* window is displayed.

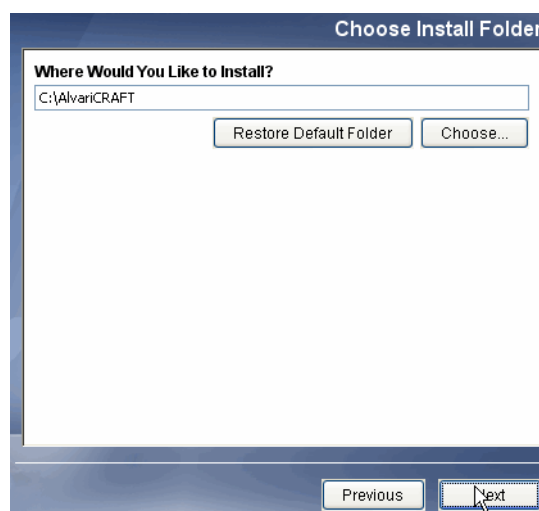


Figure 2-6: Choose Install Folder Window

- 8 To accept the default destination folder, click **Next**. To change the directory, either enter the complete path (if the directory does not exist, it will be created automatically by the system) or, click **Choose** to locate an existing directory and click **Next**. To return to the default destination folder, click **Restore Default Folder**.

**NOTE**

If a folder with the same name already exists on the computer, a warning to save all information in the folder is displayed.

The *Choose Shortcut Folder* window is displayed.

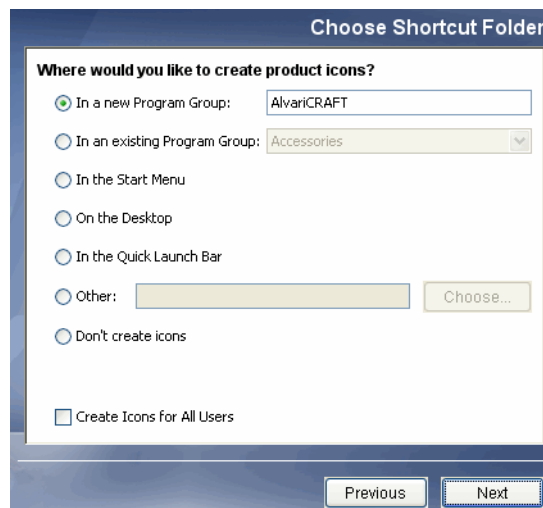


Figure 2-7: Choose Shortcut Folder Window

- 9 Select a location for the product icons and click **Next**.

**NOTE**

By default, the *In an existing Program Group* is selected and the *Create Icons for All Users* box is checked. To create icons for the current user only, select the *In a new Program Group* option and then uncheck the *Create Icons for All Users* box.

The *Installation Summary* window is displayed.

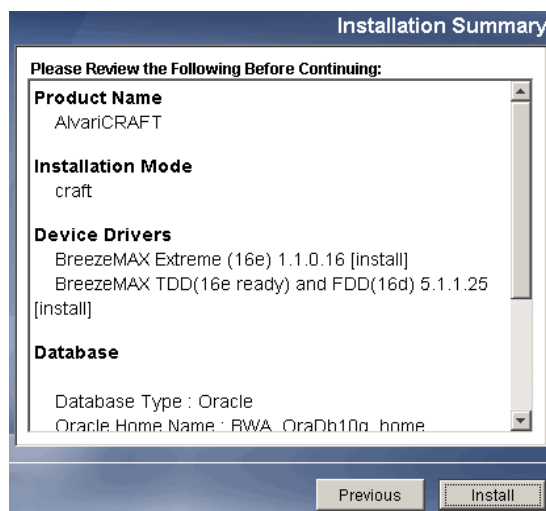


Figure 2-8: Installation Summary Window

- 10 Review the information and if the definitions are all correct, click **Install**. Click **Previous** to go back to change a definition.

The *Installing AlvariCRAFT* window is displayed.

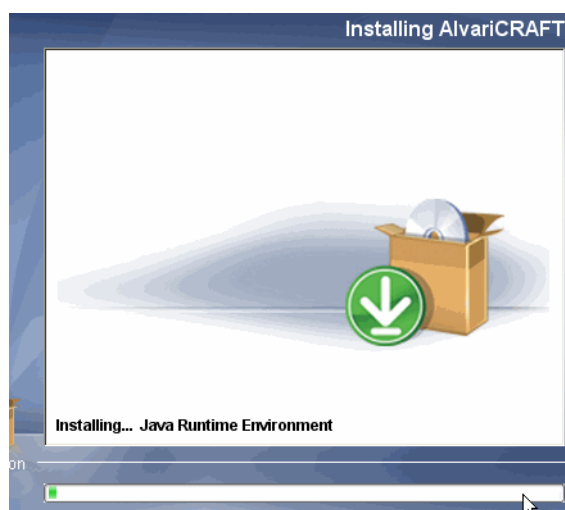


Figure 2-9: Installing AlvariCRAFT Window

AlvariCRAFT is configured for your system and the LDAP Service is installed.



Figure 2-10: Installing LDAP Service

The database software is installed.

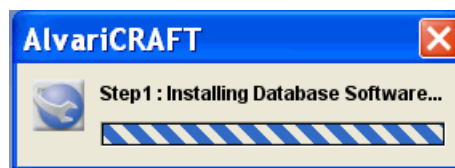


Figure 2-11: Installing Database Software

Oracle Universal Installer console screens showing the database installation steps are displayed. No user intervention is required.

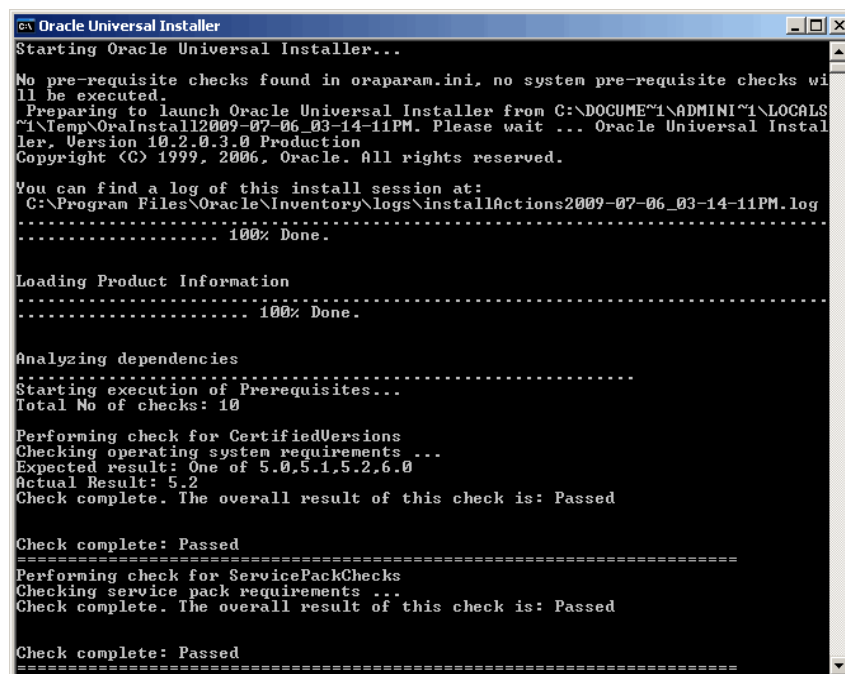


Figure 2-12: Oracle Universal Installer Console

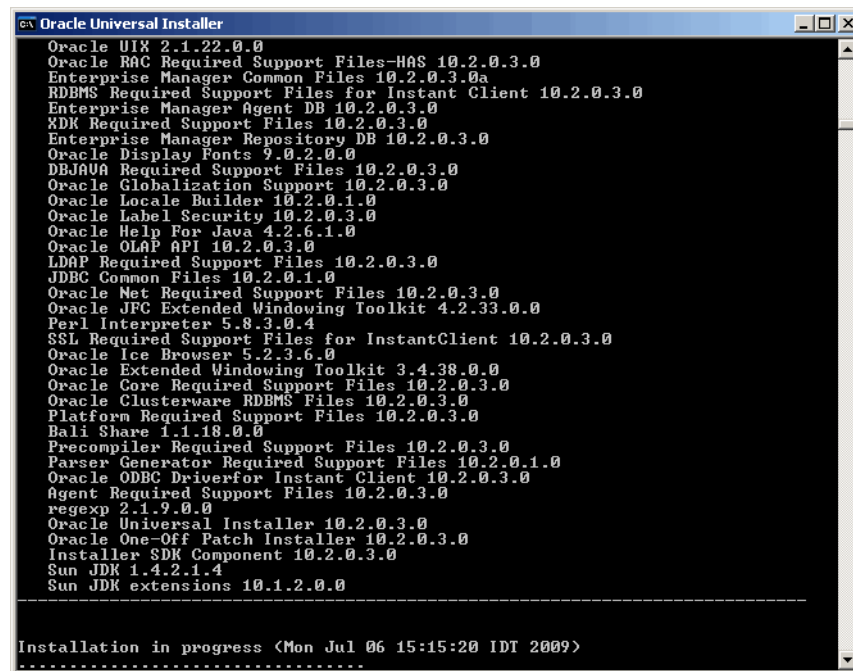


Figure 2-13: Oracle Universal Installer Console (contd.)

The network is configured.

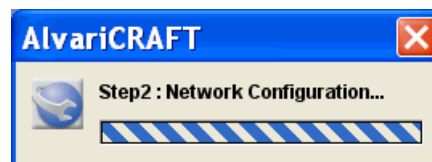


Figure 2-14: Network Configuration

The database is created.



Figure 2-15: Database Creation

The connection to the database is tested.

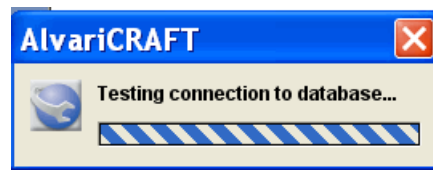


Figure 2-16: Testing connection to the database



NOTE

If the database is not installed and running or values are incorrect, connection to the database fails and an error message is displayed.

Once you have successfully connected to the database, the following message is displayed.

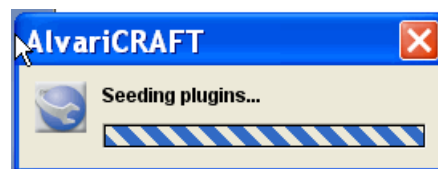


Figure 2-17: Seeding Plugins Message

The startup configuration files are loaded and the *Install Complete* window is displayed.

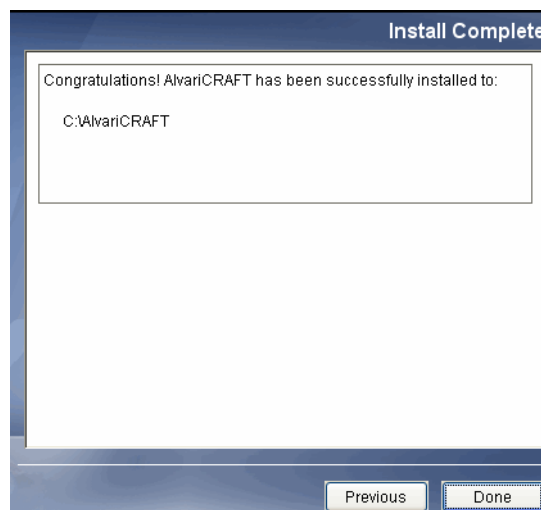


Figure 2-18: Install Complete Window

- 11** Click **Done** in order to quit the installer and complete the installation.

2.2.3 Post-installation tasks

2.2.3.1 Configuring Global Properties

The Application Server host must be configured.



To configure the global properties:

- 1 Shut down the AlvariCRAFT Application .
- 2 Edit the the appserver.properties file <AlvariCRAFT Root>\craft\conf\appserver.properties and modify the following parameters:

Table 2-2: Application Server Properties Parameters

Parameter	Default Value	Functionality
com.bwanms.serviceAffectingWarning	false	If true, a message confirming the device driver, is displayed whenever you click Apply .
com.bwanms.fault.event.lifeTime	30 (secs)	The minimum time an event is displayed once it has been cleared or acknowledged. Note: The display time varies depending on at which point of the 1 minute refresh cycle the event was cleared/acknowledged.
Application Log Aging		
com.bwanms.logging.retainsDays	10	The number of days that log files are saved for display
com.bwanms.logging.maxFileSize	2 GB	The maximum size of all the log files combined. Note: The smaller of the 2 values, takes effect
Performance Collection		
com.bwanms.pmcollection.exportFolder	<AlvariCRAFT Root>\filesystem\export	The name of the folder to which the performance files are saved.

- 3 Edit the rb.properties file <AlvariCRAFT Root>\craft\conf\rb.properties and modify the following parameters related to the device driver:

Table 2-3: RB Parameters

Parameter	Default Value	Functionality
FAULT		
com.bwanms.rb.ddi.disableSUSysTrap	true	If true, AlvariCRAFT does not generate network management system traps for the SU. Traps that come from the device itself, are processed. If false, AlvariCRAFT will generate events for the SU as well.
com.bwanms.rb.ddi.disabledTrap		A list of SUs for which AlvariCRAFT does not treat traps generated by the device. The format is trap source . trap specific. eg. SU.101, SU.102.
TFTP		
com.bwanms.rb.ddi.downloadConfigurationFile.tftpDefaultTimeout	5000 (ms)	The default timeout for configuration file download.
com.bwanms.rb.ddi.downloadConfigurationFile.tftpDefaultRetries	3	The number of TFTP retries permitted for configuration file download.
com.bwanms.rb.tasks.softwareupgrade.tftpDefaultTimeout	5000 (ms)	The default timeout for software upgrade file download
com.bwanms.rb.tasks.softwareupgrade.tftpDefaultRetries	3	The number of TFTP retries permitted for software upgrade file download.

- 4 If the TFTP Server IP address needs to be changed (for example: if there are separate networks for Wimax and Client/Server),

» Open the <AlvariCRAFT

Root>\jboss\server\nms\deploy\bwanms.sar\META-INF\jboss-service.xml file and locate the following text :

```
<mbean code="com.bwanms.services.ejb.TFTPManagerService"
      name="bwanms:service=TFTPManagerService">

    <attribute name="WorkingDir">tftp</attribute>

    <attribute
name="IPAddress">${jboss.bind.address}</attribute>

    <attribute name="Port">69</attribute>

<depends>bwanms:service=PropertiesManagerService</depends>
```

</mbean>

and replace the "\${jboss.bind.address}" token with the required IP.

OR

» Edit the <AlvariCRAFT Root>/watchdog/watchdog.properties file.

5 Restart the AlvariCRAFT Application .

2.3 Running AlvariCRAFT

AlvariCRAFT is an execution based application. On every execution, AlvariCRAFT checks whether the two pre-requisite processes, LDAP and Oracle are up and running and initializes them in case they are down.

Upon exiting the application, the Oracle and LDAP processes are terminated as well.

- From the Windows *Start* menu, select **Programs > AlvariCRAFT > Start Craft**.

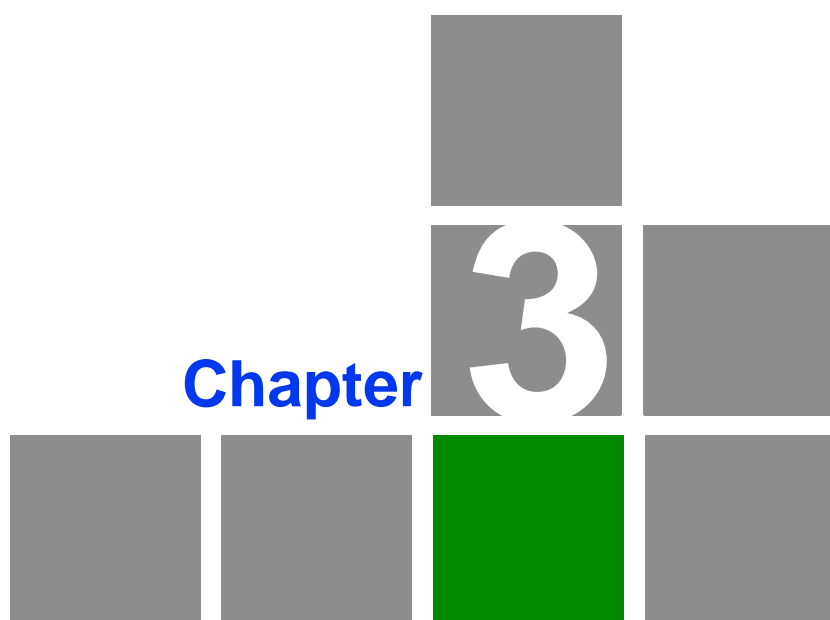
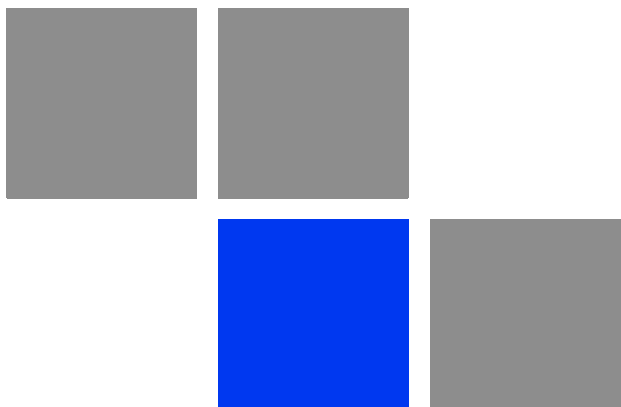
2.4 Upgrading an AlvariCRAFT Installation

Upgrading an AlvariCRAFT upgrades the database and replaces the software with the latest version.



IMPORTANT

There is no upgrade for the current version.



Chapter

3

Uninstalling AlvariCRAFT

In This Chapter:

This chapter describes how to uninstall AlvariCRAFT.

- [“Uninstalling AlvariCRAFT” on page 27](#)

3.1 Uninstalling AlvariCRAFT



NOTE

Uninstalling the AlvariCRAFT server, also uninstalls all device drivers.



NOTE

Before uninstalling AlvariCRAFT, it is recommended to backup the database and close the application.



To uninstall AlvariCRAFT:

- 1 From the *Control Panel*, select the **Add/Remove Programs** utility, locate **AlvariSTAR** and click the **Remove** button.

OR

From the Windows *Start* menu select **Programs >AlvariCRAFT >Uninstall**.

The *Uninstall AlvariCRAFT* window is displayed.

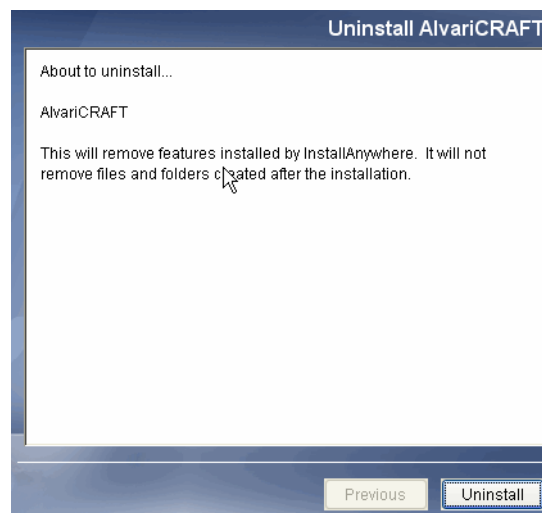
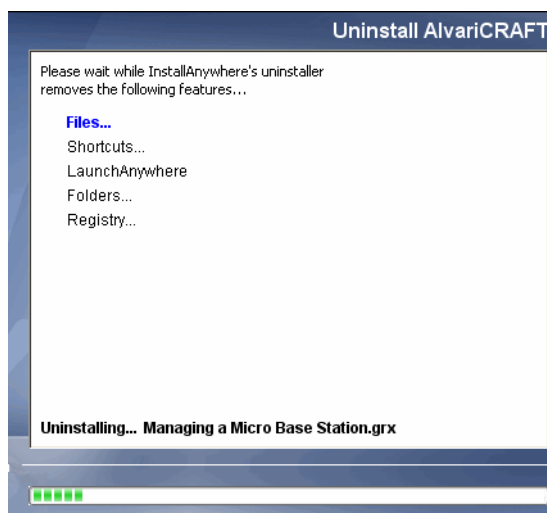


Figure 3-1: Uninstall AlvariCRAFT Window

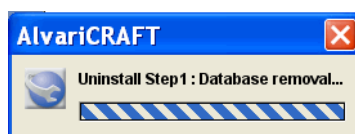
- 2 Click **Uninstall**. Messages relating to the uninstall procedure are continuously displayed in the *Uninstall AlvariCRAFT* window.

**Figure 3-2:**

The LDAP Service is removed.

**Figure 3-3: Removing LDAP Service**

The database is removed.

**Figure 3-4: Removing Database**

The database software is uninstalled.

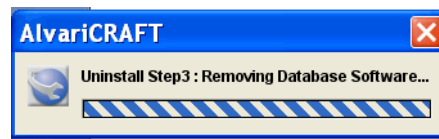


Figure 3-5: Uninstalling Database Software

Once all items have been successfully uninstalled the *Uninstall Complete* window is displayed.

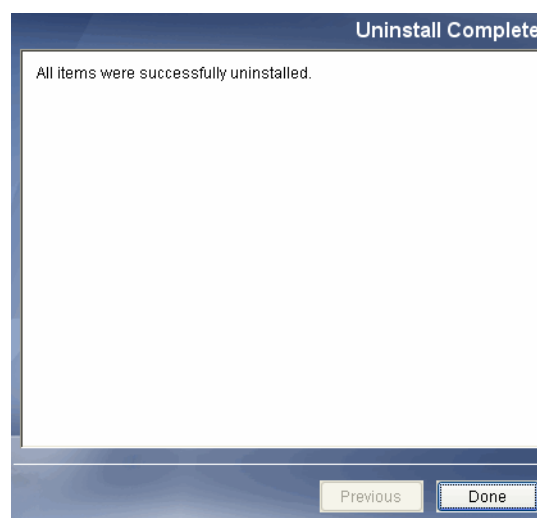


Figure 3-6: Uninstall Complete Window

- 3 Click **Done** to complete uninstallation.



NOTE

The file system folder and install/uninstall logs will not be deleted after AlvariCRAFT has been uninstalled.